

## Results for the 12'x200' circular tank with ramp:

### Circular tank:

Tank Diameter = 200 ft

Tank Wall thickness = 12 in (actual)

Tank Height = 12 ft

$f_y = 60,000$  psi

$f'_c = 4,000$  psi

Horizontal Steel = #5 rebar Steel shown in table must be placed in each face of the wall		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	14	1' 5"
3	12	2' 5"
4	12	3' 5"
5	12	4' 5"
6	12	5' 5"
7	12	6' 5"
8	12	7' 5"
9	12	8' 5"
10	10	9' 3"
11	10	10' 1"
12	10	10' 11"
13	10	11' 9"

Vertical Steel = #4 @ 12" O.C. in each face.

Dowels "L" bars from tank to footing shall be #4 @ 12" O.C. at the interior mat of steel. 26" vertical leg, 10" horizontal leg


For a length of 80 feet, centered on the ramp substitute #5 @ 12" O.C. vertical steel in each face for the #4 @ 12" O.C. vertical steel in each face.

In the tank wall, at the corner of the notch for the ramp add:

4-#6 bars x 11'-10" long @ 6" O.C. vertically in each mat of steel (6 total)

4-#6 bars x 20' long @ 6" O.C. horizontally in each mat of steel (6 total)

4-#6 bars x 6 feet long @ 6" O.C. at a 45 degree angle in each mat of steel (8 total).

 <i>Natural Resources Conservation Services</i> <i>United States Department of Agriculture</i>	<div>_____ County, PA</div> <div><b>ROUND TANK W/RAMP</b></div> <div><b>DETAIL Page 6.27</b></div>	Designed <u>PA NRCS</u> <u>12/01</u>
		Drawn <u>Hartz</u> <u>2/1/08</u>
		Revisions <u>Pereverzoff</u> <u>1/9/08</u>
		Checked _____
		Approved _____